

**IR** Assembly Solutions

# Articulating Arms





# Articulating Arms

## APPLICATIONS:

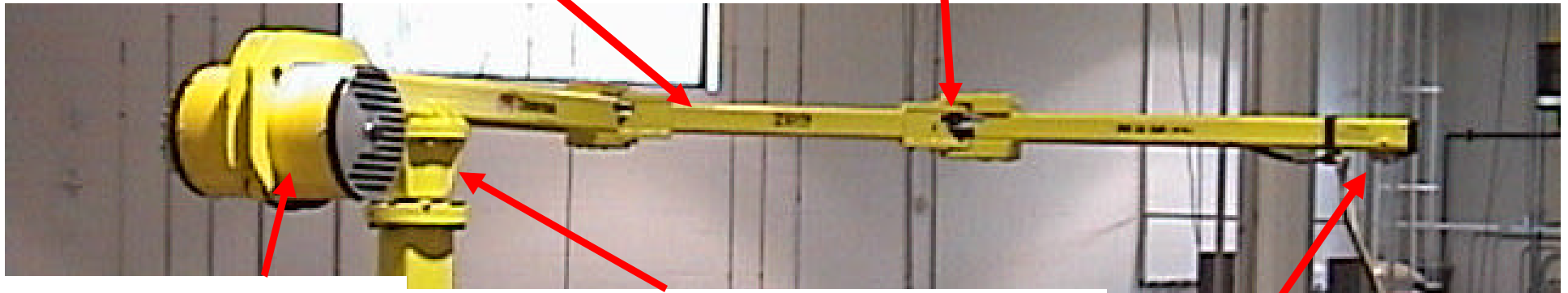
**WHENEVER IT IS NOT POSSIBLE TO INSTALL A RAIL SYSTEM DIRECTLY ABOVE A WORK AREA, AN ARTICULATING ARM IS A SOLUTION**

**ARTICULATING ARMS PROVIDE THE ABILITY TO REACH BEYOND THE RAIL SYSTEM TO PICK UP OR SET DOWN A LOAD.**

# 700C Articulating Arm

Internal Pulleys to Prevent Wire Rope from Resting in Bottom of Arm

270° Articulation at Center Pivot



Balancer Mounted  
Horizontally

360° Articulation at Mounting Pivot

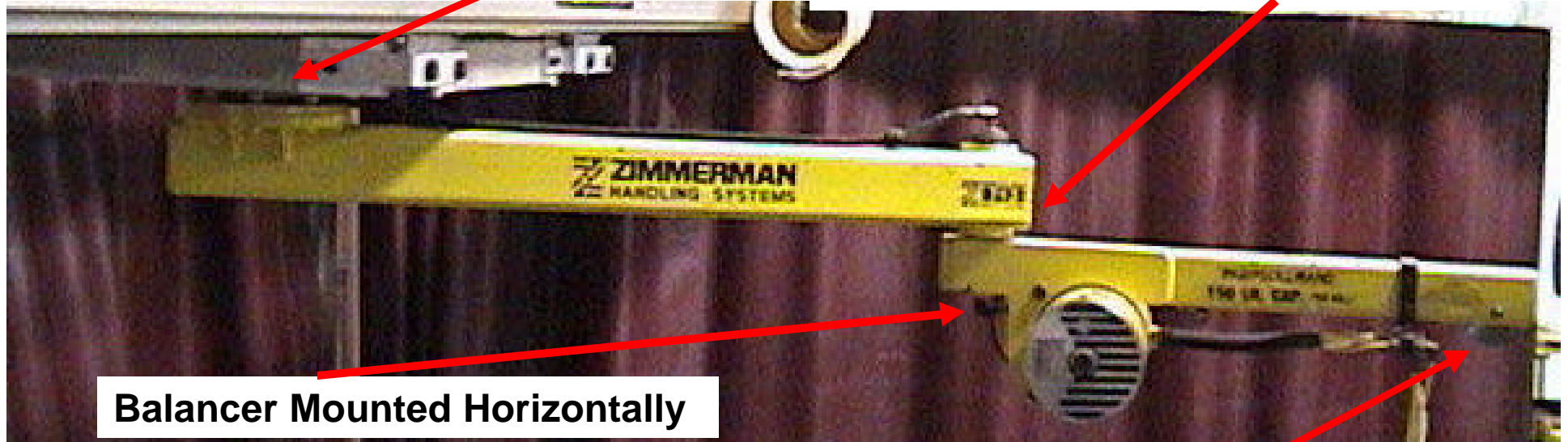
End of Arm Pulley Provides Vertical Lift

- Maximum Capacity 272Kg (500 lb.) with 3M (10 ft.) Reach
- Carriage or Column Mounted; will install to most competitor rail

# 713 Articulating Arm

360° Articulation at Mounting Pivot

360° Articulation at Center Pivot



End of Arm Pulley Provides Vertical Lift

- Maximum Capacity 272Kg (500 lb.) with 3M (10 ft.) Reach
- Carriage or Column Mounted; will install to most competitor rail

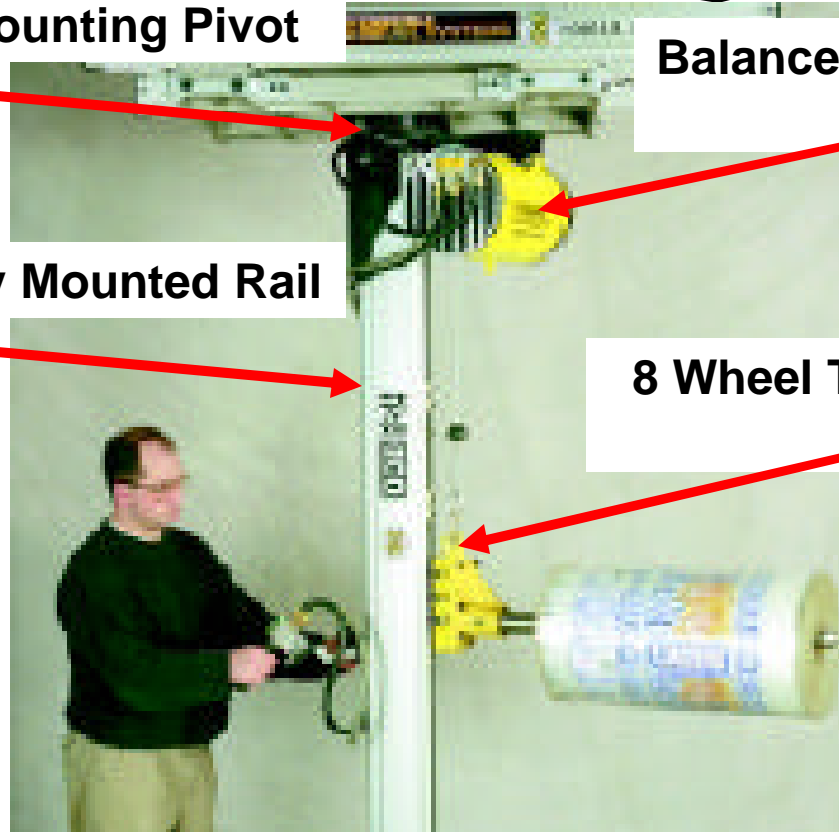
# 600 Articulating Arm

360° Articulation at Mounting Pivot

Balancer/ InteLift/ Hoist provide lifting

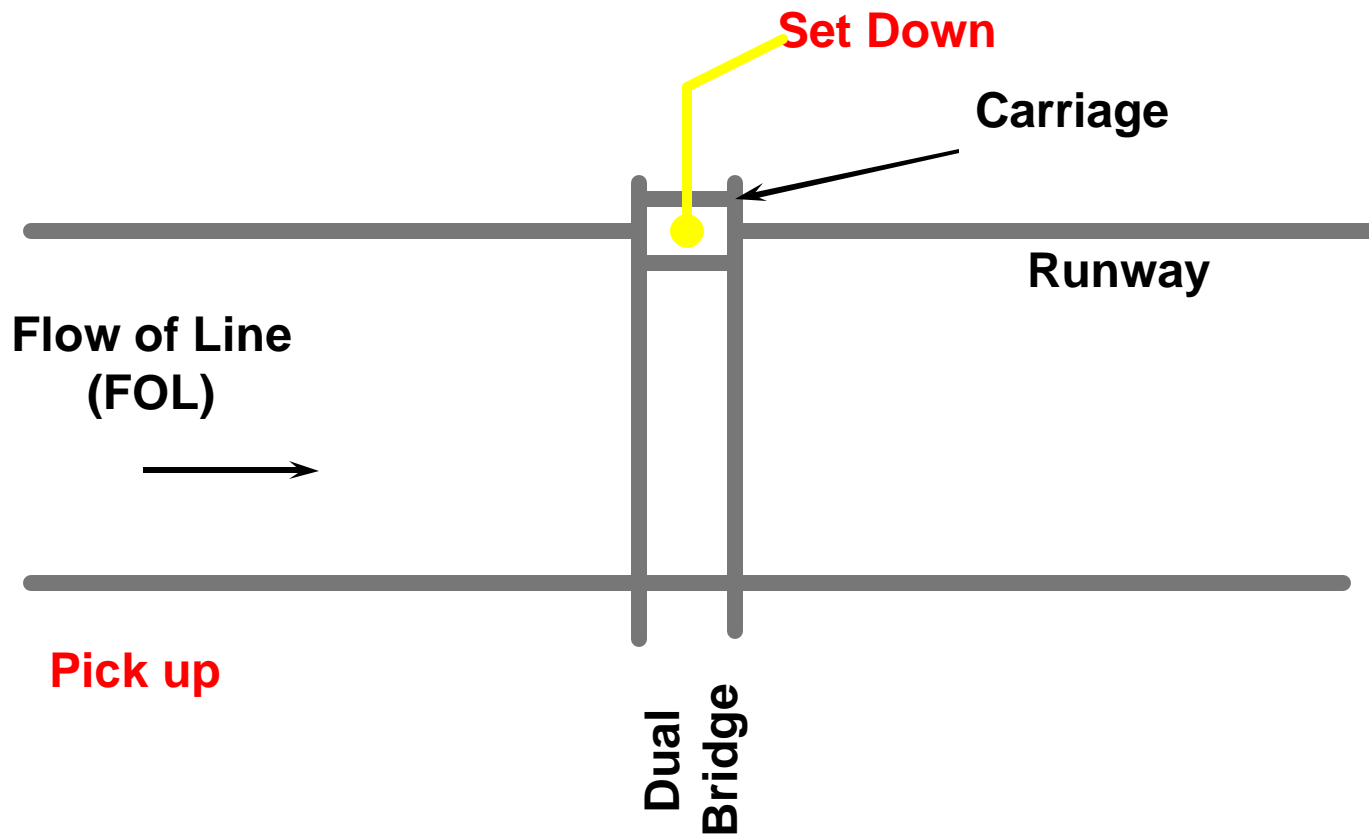
ZRA1/ ZRA2 Vertically Mounted Rail

8 Wheel Trolley & Attachment Bracket



- Maximum Capacity 454.5Kg (1000 lb.)
- Carriage or Column Mounted; will install to most competitor rail

# Articulating Arm Layout





# Standard Configured Products:

Example: 70015SATT0ZP06A

700 15 S A TT 0 ZP 06 A

- Style** \_\_\_\_\_
- 700
  - 701 (150 lb capacity only)
  - 713
  - 720 (150 lb capacity only)

- Capacity** \_\_\_\_\_
- 15 = 150 lbs (68.2 kg) - 80 in. (2032 mm)
  - 20 = 200 lbs (90.9 kg) - 120 in. (3048 mm)
  - 35 = 350 lbs (159.1 kg) - 80 in. (2032 mm)
  - 50 = 500 lbs (227.3 kg) - 80 in. (2032 mm)

- Intelift Options (@)** \_\_\_\_\_
- S = Standard Balancer
  - I = Intelift Balancer (Consult factory)

**Arm** \_\_\_\_\_

- Mounting Options (\*\*)** \_\_\_\_\_
- |                                  |                            |
|----------------------------------|----------------------------|
| TT = Top Mount (Ceiling mount)   | S2 = ZRS2 Carriage Mount   |
| BB = Bottom Mount (Column mount) | TR = T-Rail Carriage Mount |
| A1 = ZRA1 Carriage Mount*        | E8 = ETA-8 Carriage Mount  |
| A2 = ZRA2 Carriage Mount         | K2 = KBK2 Carriage Mount   |
- \*Note: A1 Carriage Mount Option is only available for arms with 150 and 200 lbs (65 and 90 kg) capacity / 6, 7, and 8 ft (1.83, 2.13 and 2.44 m) length.

- Carriage Options (?)** \_\_\_\_\_
- O = No Carriage
  - H = High-Profile Carriage
  - L = Low-Profile Carriage

- Controls (++)** \_\_\_\_\_
- |                                   |                                 |
|-----------------------------------|---------------------------------|
| ZP = ZA (Zim-Air) Pendent Control | EP = EA (Equi-Air) 2PS Pressure |
| ZQ = ZA (Zim-Air) Quad-Coil       | EV = EA (Equi-Air) 2PS Vacuum   |
| ZT = ZA (Zim-Air) Tri-Coil        |                                 |
| BA = BA (Balance-Air) Standard    |                                 |
| BZ = BA (Balance-Air) Z-Servo     |                                 |

- Arm Length** \_\_\_\_\_
- 06 = 6 ft (1.83 m) Arm
  - 07 = 7 ft (2.13 m) Arm
  - 08 = 8 ft (2.44 m) Arm
  - 09 = 9 ft (2.74 m) Arm
  - 10 = 10 ft (3.05 m) Arm

- Mounting Accessories (#)** \_\_\_\_\_
- |                                      |                                 |
|--------------------------------------|---------------------------------|
| O = No Mounting Accessories          | D = 9 ft (2.74 m) Column Mount  |
| A = 13 in. (0.33 m) Ceiling Mount    | E = 10 ft (3.05 m) Column Mount |
| B = 8 ft (2.44 m) Column Mount       | F = 11 ft (3.35 m) Column Mount |
| C = 8 ft 6 in. (2.59 m) Column Mount | G = 12 ft (3.66 m) Column Mount |

## Standard Configured Products:

### Series 600 Arms



Example: 60015IA1A2ZPG

600 15 I A 1 A2 Z P G

Style \_\_\_\_\_  
600

Capacity - Vertical Travel \_\_\_\_\_

- 15 = 150 lbs (68.2 kg) - 80 in. (2032 mm)
- 20 = 200 lbs (90.9 kg) - 120 in. (3048 mm)
- 35 = 350 lbs (159.1 kg) - 80 in. (2032 mm)
- 50 = 500 lbs (227.3 kg) - 80 in. (2032 mm)
- 7R = 700 lbs (318.2 kg) - 40 in. (1016 mm)
- 7T = 700 lbs (318.2 kg) - 80 in. (2032 mm)
- 1R = 1000 lbs (454.5 kg) - 40 in. (1016 mm)
- 1T = 1000 lbs (454.5 kg) - 80 in. (2032 mm)

Intelift Options (@) \_\_\_\_\_

- S = Standard Balancer
- I = Intelift Balancer (Consult factory)

Arm \_\_\_\_\_

Single or Dual Mast \_\_\_\_\_

- 1 = Single Mast
- 2 = Dual Mast

Carriage Options (\*\*) \_\_\_\_\_

- A1 = ZRA1
- A2 = ZRA2
- S2 = ZRS2
- S3 = ZRS3
- TR = T-Rail
- E8 = ETA-8
- K2 = KBK2

Note: All Zimmerman 600 Arms use a Low Profile Carriage Assembly

Controls (+) \_\_\_\_\_

- Z = ZA (Zim-Air) Control (Includes dummy handle)

Brake Options (&) \_\_\_\_\_

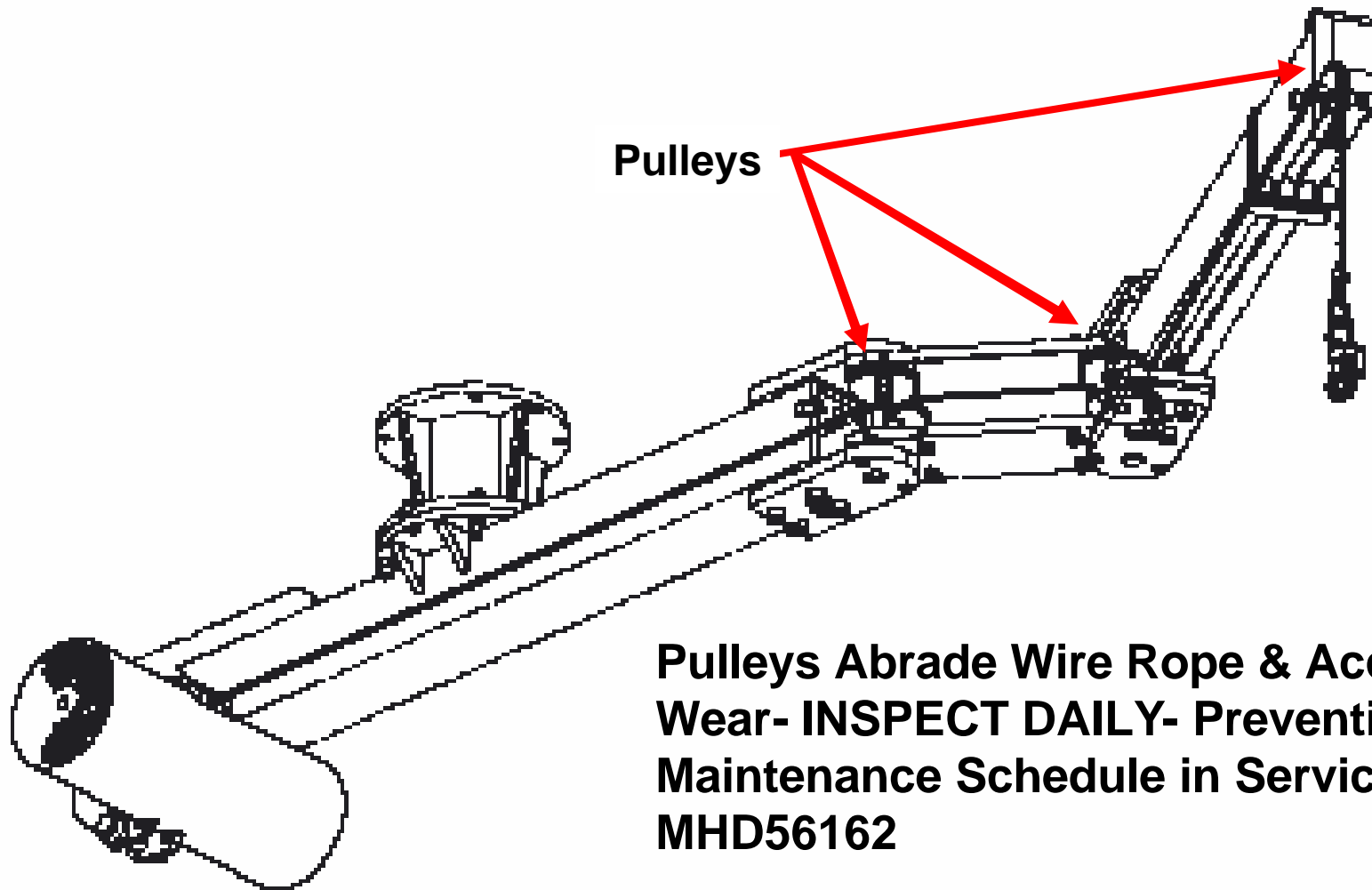
- O = No brake
- P = Pin-lock Brake (hard stops every 45 degrees)
- B = Bumper Friction Brake (soft stop at any point on 360 degree rotation)
- C = Caliper Brake

Mast Length (#) \_\_\_\_\_

- |                         |                         |                          |
|-------------------------|-------------------------|--------------------------|
| A = 4 ft (1.22 m)       | G = 7 ft (2.13 m)       | P = 10 ft (3.05 m)       |
| B = 4 ft 6 in. (1.37 m) | H = 7 ft 6 in. (2.29 m) | Q = 10 ft 6 in. (3.20 m) |
| C = 5 ft (1.52 m)       | J = 8 ft (2.44 m)       | R = 11 ft (3.35 m)       |
| D = 5 ft 6 in. (1.68 m) | K = 8 ft 6 in. (2.59 m) | S = 11 ft 6 in. (3.51 m) |
| E = 6 ft (1.83 m)       | M = 9 ft (2.59 m)       | T = 12 ft (3.66 m)       |
| F = 6 ft 6 in. (1.98 m) | N = 9 ft 6 in. (2.90 m) |                          |



# Articulating Arm & Wire Rope Wear



**Pulleys**

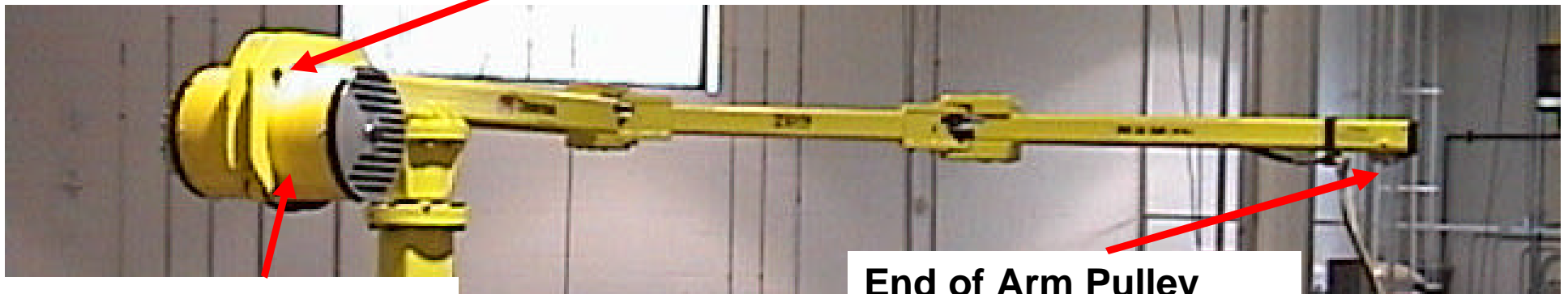
**Pulleys Abrade Wire Rope & Accelerate  
Wear- INSPECT DAILY- Preventive  
Maintenance Schedule in Service Manual  
MHD56162**

# Articulating Arm

Wire Rope Replacement- 700 & 713

Lower the Load to the Full Down Position- Remove Air Supply- Remove Load from Hook

Remove Upper Balancer Mount Bolt



Rotate Balancer Down

End of Arm Pulley

Cut Wire Rope at Balancer- Install new wire rope to reel- Butt Splice New Rope to Old Rope- At End of Arm Pulley Pull Old Wire Rope Out to Feed New Wire Rope through Pulleys

Reinstall Balancer- Turn on Air Supply- Keep Tension on Wire Rope while moving with no load on hook

# Articulating Arms Review

- **Provides Reach Beyond Normal Rail System**
  - **Carriage or Column Mounting**
- **272 Kg (500lb) Capacity- 700/ 713 Series**
- **454.5 Kg (1000lb) Capacity- 600 Series**